

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/05471

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04N9/79 H04N9/804

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 802 682 A (PHILIPS ELECTRONICS N. V.) 22 October 1997 (1997-10-22) the whole document	1, 2, 4, 7, 10-13

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

27 July 2004

Date of mailing of the international search report

02/08/2004

Name and mailing address of the ISA

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Authorized officer

Verleye, J

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 03/05471

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0802682	A	22-10-1997	
		BE 1010193 A3	03-02-1998
		AT 221295 T	15-08-2002
		DE 69714127 D1	29-08-2002
		DE 69714127 T2	06-03-2003
		EP 0802682 A1	22-10-1997
		JP 10098683 A	14-04-1998
		US 6459850 B1	01-10-2002
		US 2002012530 A1	31-01-2002

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
8 July 2004 (08.07.2004)

PCT

(10) International Publication Number  
**WO 2004/057604 A3**

(51) International Patent Classification<sup>7</sup>: **H04N 9/79**, 9/804

AA Eindhoven (NL). **JOICHEMSEN, Robert** [NL/NL];  
c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(21) International Application Number:

PCT/IB2003/005471

(74) Agent: **GROENENDAAL, Antonius, W., M.**; Philips  
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(22) International Filing Date:

20 November 2003 (20.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

02080511.5 20 December 2002 (20.12.2002) EP

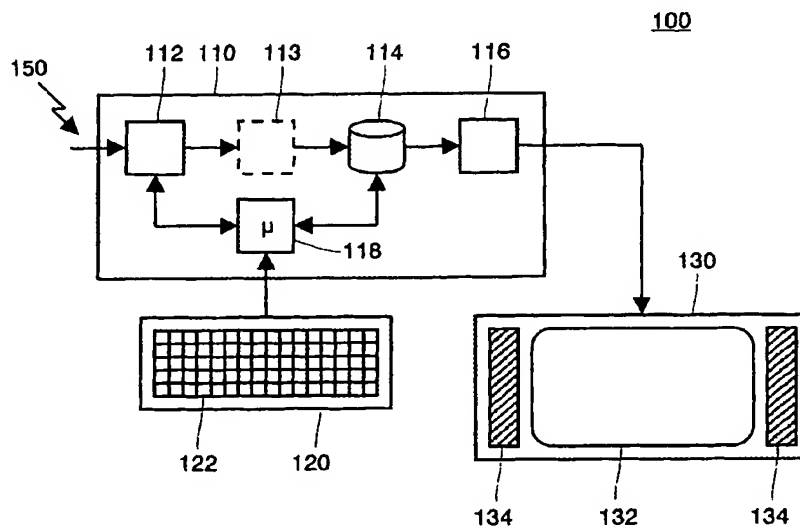
(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,  
GH, GM, HR, HU, ID, IL, IN, IS, JP, KP, KG, KR, KR,  
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,  
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,  
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,  
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (*for all designated States except US*): **KONIN-  
KLJKE PHILIPS ELECTRONICS N.V.** [NL/NL];  
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(84) Designated States (*regional*): ARIPO patent (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,  
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,  
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHOD OF RECORDING A STREAM OF AUDIO-VISUAL DATA



(57) Abstract: When a stream of audio-visual data like a television program is recorded (110) with a digital video recorder comprising a compression engine (113) for compressing the stream prior to storage using a variable bit-rate compression technique, the size of the full stream to be stored is unknown. The invention provides a method which solves this problem by providing information on the complexity of the stream to be stored. With this information, combined with information on the duration of the stream of audio-visual data and the compression algorithm used to compress the stream, the amount of storage space to be reserved for storing the stream of audio-visual data can be determined.

**Declaration under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK,

EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

**Published:**

- with international search report  
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the International search report:

16 September 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



To the European Patent Office

**Entry into the European phase (EPO as designated or elected Office)**

European application number	
PCT application number	PCT/IB2003/05471
PCT publication number	WO04057604
Applicant's or representative's reference	PHNL021304EP

**1. Applicant**

Particulars of the applicant(s) are contained in the international publication or were recorded by the International Bureau subsequent to the international publication.



Changes which have not yet been recorded by the International Bureau are set out here:



Address for correspondence

**2. Representative 1**

This is the representative who will be listed in the Register of European Patents and to whom notifications will be made

Name

LANDOUSY, Mr Christian

Address of place of business

Société Civile SPID  
156 Bd Haussmann  
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France

Telephone

+ 33 01 40 76 80 30

Fax

+ 33 01 45 61 05 36

e-mail

Any additional representative(s) is/are listed here:



**3. Authorisation**

An individual authorisation is attached.



A general authorisation has been registered under No:



A general authorisation has been filed, but not yet registered.



The authorisation filed with the EPO as PCT receiving Office expressly includes the European phase.



**4. Request for examination**

Examination of the application under Art. 94 EPC is hereby requested. The examination fee is being (has been, will be) paid.



Request for examination in an admissible non-EPO language:



Verzocht wordt om onderzoek van de  
aanvraag als bedoeld in Art. 94.

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## 5. Copies

One or more additional sets of copies of the documents cited in the supplementary European search report are hereby requested.

☐

Number of additional sets of copies

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## 6. Documents intended for proceedings before the EPO

6.1 Proceedings before the EPO as designated Office (PCT I) are to be based on the following documents:

the application documents published by the International Bureau (with all claims, description and drawings), where applicable with amended claims under Art. 19 PCT

☒

unless replaced by the amendments attached.

☐

*Where necessary, clarifications should be attached as 'Other Documents'*

6.2 Proceedings before the EPO as elected Office (PCT II) are to be based on the following documents:

the documents on which the international preliminary examination report is based, including any annexes

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unless replaced by the amendments attached.

☐

*Where necessary, clarifications should be attached as 'Other Documents'*

If the EPO as International Preliminary Examining Authority has been supplied with test reports, these may be used as the basis of proceedings before the EPO.

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## 7. Translations

Translations in one of the official languages of the EPO (English, French, German) are attached as crossed below:

*\* In proceedings before the EPO as designated or elected Office (PCT I + II):*

Translation of the international application (description, claims, any text in the drawings) as originally filed, of the abstract as published and of any indication under Rule 13bis.3 and 13bis.4 PCT regarding biological material

☐

Translation of priority application(s)

☐

It is hereby declared that the international application as originally filed is a complete translation of the previous application (Rule 38(5) EPC)

☐

*\* In addition, in proceedings before the EPO as designated Office (PCT I):*

Translation of amended claims and any statement under Art. 19 PCT, if the claims as amended are to form the basis for the proceedings before the EPO (see Section 6).

☐

*\* In addition, in proceedings before the EPO as elected office (PCT II):*

Translation of annexes to the international preliminary examination report

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**8. Biological material**

The invention relates to and/or uses biological material deposited under Rule 28 EPC.

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The particulars referred to in Rule 28(1)(c) EPC (if not yet known, the depository institution and the identification reference(s) [number, symbols, etc.] of the depositor) are given in the international publication or in the translation submitted under Section 7 on:

☐

page(s) / line(s)

A copy of the receipt(s) of deposit issued by the depository institution

is attached

☐

will be filed at a later date

☐

A waiver of the right to an undertaking from the requester pursuant to Rule 28(3) EPC is attached.

☐

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**9. Nucleotide and amino acid sequences**

The items required under Rules 5.2 and 13ter PCT and Rule 111(3) EPC have already been furnished to the EPO.

☐

The sequence listing as part of the description is attached in PDF format.

☐

The sequence listing does not include matter that goes beyond the content of the application as filed.

☐

In addition, the sequence listing data is attached in computer-readable form in accordance with WIPO Standard 25.

☐

The sequence listing data in computer-readable form in accordance with WIPO Standard 25 is identical to the sequence listing in PDF format.

☐

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**10. Designation fees**

10.1 It is currently intended to pay seven times the amount of the designation fee. The designation fees for all the EPC contracting states designated in the international application are thereby deemed to have been paid (Art. 2 No. 3 RFees).

☒

AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU MC NL PL PT RO SE SI SK TR

10.2 The declaration in No. 10.1 does not apply. Instead, it is currently intended to pay fewer than seven designation fees for the following EPC contracting states designated in the international application:

☐

It is requested that no communications under Rule 108(3) EPC be issued in respect of any contracting states not indicated.

10.3 If an automatic debit order has been issued (Section 12), the EPO is authorised, on expiry of the basic period under Rule 107(1)(d) EPC, to debit seven times the amount of the designation fee. If states are indicated in No. 10.2, the EPO will debit designation fees for those states only, unless instructed otherwise before the basic period expires.

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**11. Extension of the European patent**

This application is also considered as being a request for extension to all the non-contracting states to the EPC designated in the international application with which "extension agreements" were in force on the date of filing the international application. However, the extension only takes effect if the prescribed extension fee is paid.



It is currently intended to pay the extension fee for the following states:

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**12. Automatic debit order**

Currency

EUR

The EPO is hereby authorised, under the Arrangements for the automatic debiting procedure, to debit from the deposit account below any fees and costs falling due. For designation fees, see "States". The EPO is also authorised, on expiry of the basic period for paying the extension fees, to debit those fees for each of the "extension states" indicated in "States".

Deposit account number

28090021

Account holder

PHILIPS INTERNATIONAL B.V. - IP&S

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**13. Reimbursements (if any) should be made to the following EPO deposit account:**

Number and account holder

28090021, PHILIPS INTERNATIONAL  
B.V. - IP&S

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**14. Fees**

		Factor applied	Fee schedule	Amount to be paid
14-1	002 Search fee	0	690.00	0.00
14-2	015 Claims fee	0	40.00	0.00
14-3	020 Basic national fee for an international application	1	90.00	90.00
14-4	033 Renewal fee for the 3rd year	1	380.00	380.00
<b>Total:</b>			<b>EUR</b>	<b>470.00</b>

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**15. Annotations**

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**16. Signature(s) of applicant(s) or representative**

Place: **PARIS**  
Date: **1 June 2005**  
Signed by: **Subject: FR, Société Civile S.P.I.D., C. Landousy 1415**  
**Issuer: , European Patent Office, European Patent Office CA**  
Capacity: **( Déposant )**

For employees (Art. 133(3) EPC) having a general authorisation:  
General authorisation No.

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Europäisches  
Patentamt

European  
Patent Office

Office européen  
des brevets

### Acknowledgement of receipt

We hereby acknowledge receipt of the form for entry into the European phase (EPO as designated or elected Office) as follows:

Submission number	54060	
PCT application number	PCT/IB03/05471	
Date of receipt	1 June 2005	
Your reference	PHNL021304EP	
Applicant		
Country		
Documents submitted	EPF1200.PDF ep-euro-pct.xml	application-body.xml package-data.xml
Submitted by	CN=C: Landousy 1415;O=Société Civile S.P.I.D.;C=FR	
Method of submission	Online	
Date and time receipt generated	1 June 2005, 15:02:54	
Digest	FF:50:50:50:9B:22:81:BA:89:80:40:19:D2:AF:24:DD:04:5 C:E6:FE	

/European Patent Office/



EPO - Munich  
34  
14. Juni 2005

Paris,

10 June 2005

WREF

FC/JR

VREF

PHNL021304EP

OFFICE EUROPEEN DES BREVETS

Direction Trésorerie et Comptabilité

Erhardtstrasse 27

D-80298 MUNCHEN

- ALLEMAGNE -

**PCT application number IB2003/05471**

**European Patent application n° 03772573.6**

**OBJECT : Payment of the claim fees according to Rule 110 (1) EPC**

Please find enclosed a payment of fees and costs for the payment of 5 claims fees relating to PCT application n° IB2003/05471 entered into European phase on 1 June 2005.

The Professional Representative

F. CHARPAIL

**Zur Kasse**

PROPRIETE INDUSTRIELLE

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Tél. : 33 (0)1 40 76 80 00 Fax : 33 (0)1 45 61 05 36 Liste Spéciale INPI 422-5/S008



EPO - Munich  
34  
14. Juni 2005

Paris,

10 june 2005

N/REF

FC/JR

V/REF

PHNL021304EP

OFFICE EUROPEEN DES BREVETS

Direction Trésorerie et Comptabilité

Erhardtstrasse 27

D-80298 MUNCHEN

- ALLEMAGNE -

**PCT application number IB2003/05471**

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The Professional Representative

F. CHARPAIL

**Zur Kasse**

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